



**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP | NOVEMBER 2, 2016**

DIRECTORS PRESENT

Edward Mandich, Committee Chair
Don Chadd, Committee Member Alternate

DIRECTORS ABSENT

Stephen Dopudja, Committee Member

STAFF PRESENT

Michael Perea, District Secretary
Lorrie Lausten, Engineer
Lisa Sangi, Administrative Assistant
Kris Hanberg, Wastewater Department Superintendent
Gary Kessler, Water Department Chief Plant Operator
Jason Stroud, Lead Mechanical Technologist

PUBLIC PRESENT

None

CALL MEETING TO ORDER

Director Mandich called the November 2, 2016, Engineering/Operational Committee Meeting to order at 7:00 AM.

VISITOR PARTICIPATION

No comments were received.

ORAL COMMUNICATION

No comments were received.

COMMITTEE MEMBER COMMENTS

Director Chadd had no comments.

Director Mandich commented on his attendance at the Irvine Ranch Water District (IRWD) Baker Water Treatment Plant Project Celebration on October 25, 2016.

REPORT FROM THE GENERAL MANAGER

Ms. Lausten reported that the General Manager was out of the office and would return the following week.

ITEM 1: ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP

The October 5, 2016, Engineering/Operational Committee Meeting Recap was presented to the Committee.

RECOMMENDED ACTION

Director Mandich and Mr. Perea approved the Meeting Recap, and recommended that the Board receive and file the October 5, 2016, Engineering/Operational Committee Meeting Recap (Consent Calendar).

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP | NOVEMBER 2, 2016**

ITEM 2: ALTERNATE RAW WATER TRANSMISSION LINE - PW79

Ms. Lausten provided a status update on this project, and mentioned that District staff has held two publicly noticed mandatory pre-bid meetings and has advertised the project soliciting bids per Federal Emergency Management Agency (FEMA) requirements. Ms. Lausten provided a handout to the Committee which listed the contractors that attended the pre-bid meetings, and highlighted the planned project work with an aerial map of the project. Discussion occurred concerning specific project-related work, including the requirements related to the abandonment of the existing pipeline. Ms. Lausten provided a brief summary of the planned construction management and environmental compliance portions of the project, and mentioned that District staff is currently updating the project-related contract documents to reflect FEMA requirements. Ms. Lausten reviewed the revised project schedule with the Committee, and highlighted the planned completion date of April 2017. Ms. Lausten added that District staff has considered filing a project extension with FEMA if the project timeline is affected by issues outside of the District's control, for instance adverse weather or bird nesting season impacts.

RECOMMENDED ACTION

The Committee received the status update, no action taken.

ITEM 3: BAKER WATER TREATMENT FACILITY

Ms. Lausten provided a status update on this project, and mentioned that the Construction Report included as an exhibit was reviewed at the October 19, 2016, Regular Board Meeting. Ms. Lausten highlighted the Project Celebration in October, and mentioned that the ten-day facility operational test has been rescheduled for December. Ms. Lausten added that the current planned facility start date is in January 2017.

RECOMMENDED ACTION

The Committee received the status update, no action taken.

ITEM 4: TCWD's FISCAL YEAR 2014-2015 WATER AUDIT

Ms. Lausten presented this matter for Committee review, and said that the District's Fiscal Year 2014/2015 Water Audit Report (Audit) was part of the 2015 Urban Water Management Plan (UWMP) and was due in July 2016 to the Department of Water Resources (DWR). Ms. Lausten reviewed the goals of the audit which includes an annual submission requirement for compliance with new State legislation, and highlighted the included Performance Indicator Summary for Committee review as presented in the staff report. Discussion occurred concerning the certainty of the data results for water loss and annual cost impacts. Ms. Lausten reviewed the audit recommendations which included the testing of water meters, and mentioned that District staff is coordinating with the Municipal Water District of Orange County (MWDOC) to test a random set of small meters and to test all meters sized three-inch and larger. Ms. Lausten presented a handout for proposed costs for Meter Accuracy Testing Fees from two meter service firms for Committee review. Discussion occurred concerning drought impacts on water losses and the District's current meter replacement and testing programs. Director Chadd commented on the District's past meter testing practices, and asked how the District currently replaces inefficient water meters; Mr. Perea briefly reviewed the District's current meter replacement program by highlighting the practice of rebuilding small residential water meters with new internal components as a cost saving mechanism, and discussed the planned implementation of automatic meter read (AMR) water meters in the District's service area.

RECOMMENDED ACTION

The Committee received the status update, no action taken.

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP | NOVEMBER 2, 2016**

ITEM 5: OTHER ENGINEERING AND OPERATIONS PROJECTS

1. Supervisory Control and Data Acquisition (SCADA) System – Phase 1

Ms. Lausten reported that TESCO Controls is currently working with Beavens Electrical on the first phase of this project, and that an onsite visit to review the District’s SCADA System is planned.

2. Plano Sewage Lift Station and Plano Water Booster Pump Station Facility Site Security Improvements

Ms. Lausten reported that William Lyon Homes (Developer) has started work on the wall surrounding the Dahlia Court development, and that the developer will be assisting the District with this project.

3. Ridgeline Booster Pump Station Upgrades and Improvements Phase I

Ms. Lausten reported that PSOMAS (Consultant) is currently working with District staff to prepare the modeling for this project. Ms. Lausten added that this project impacts the Saddle Crest development, and said that PSOMAS is also assisting the District and Rutter Santiago (Saddle Crest developer) with the preparation of the required technical memorandum. Discussion occurred concerning the possible impacts to the District’s Harris Grade reservoirs and the benefits from the use of the related plans for the Ridgeline Booster Pump Station that were provided by California Quartet, LP.

4. Existing Network Infrastructure Upgrade

Mr. Perea reported that District staff has worked with Synoptek (IT Consultant) to procure the project-related software licenses, and has currently received all of the project hardware. Mr. Perea added that Synoptek is currently building the new network server environment and that in the coming weeks, District staff plans to meet regularly with Synoptek to discuss project development and planned milestones.

5. Other Projects

Ms. Lausten reported that there were no other projects for discussion.

RECOMMENDED ACTION

The Committee received the status update, no action taken.

ITEM 6: DISCUSSION AND POSSIBLE ACTION(S) CONCERNING SADDLE CREST DEVELOPMENT (65 DUs)

Ms. Lausten provided a status update on this development, and reviewed the pending items related to the preparation and approval of the Will Serve Letter (WSL) for this development, which included (1) the completion of the Ridgeline Booster Pump Station upgrades technical memorandum, (2) the design of the onsite pump station, and (3) the onsite potable water reservoir technical memorandum. Ms. Lausten added that District staff has recently met with Rutter Santiago (Developer) to review these pending items.

RECOMMENDED ACTION

The Committee received the status update, no action taken.

ITEM 7: ACTIVE DEVELOPMENTS

1. Dahlia Court Development (36 DUs | WSL)

Ms. Lausten provided a status update on this development, and commented that the development has completed the connection to the District’s sanitary sewer and potable water systems. Ms. Lausten added that the Developer has completed the sanitary sewer system testing, and that District staff is coordinating the delivery of water meters for the new development.

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP | NOVEMBER 2, 2016**

2. Skyridge Development (84 DUs | WSL)

Ms. Lausten provided a status update on this development, and said that the developer has completed the water pipeline loop on the backend of the development. Ms. Lausten added that Santa Margarita Water District (SMWD) anticipates completion of the installation of the eight-inch recycled water pipeline by March 2017. Discussion occurred concerning development-related challenges and the terms of the inter-agency agreement between TCWD and SMWD for delivery of recycled water to the development.

3. Oaks at Trabuco, County of Orange (9 DUs | WSL)

Ms. Lausten reported there no updates concerning this development.

4. Other Active Developments

None

RECOMMENDED ACTION

The Committee received the status update, no action taken.

ITEM 8: WATER SYSTEM UPDATES

Mr. Kessler presented the Water System Status Update through October, 2016, and reported on the following matters:

1. Water Department staff coordinated with a contractor to replace the 2 CFS motor on the Dimension Water Treatment Plant booster pump.
2. Water Department staff coordinated with Superior Tank for the warranty inspection of the clearwell at the Dimension Water Treatment Plant.
3. Water Department staff rebuilt the potable water meter box at 20511 Trabuco Oaks.
4. Water Department staff repaired a leaking hydrant lateral at St. Michael's Abbey.
5. Water Department staff continued the rebuild work of the pressure reducing valves at the Ridgeline Booster Pump Station and Falcon Booster Pump Station.

Mr. Kessler provided an updated Monthly Water System Operations Summary report for October 2016 for Committee review. Discussion occurred concerning the current conservation efforts of District customers; Mr. Kessler commented that the District's customers demand reduced by 11% in month of October 2016 in comparison to the same month in 2013. Mr. Kessler mentioned that the District purchased approximately forty-one acre feet of water from SMWD, and twenty-five acre feet of water from IRWD in October. Mr. Kessler added that the Water Operations Department provided approximately thirty-four acre feet of potable water to supplement the Recycled Water Reservoir at the Robinson Ranch Wastewater Treatment Plant (WWTP). Mr. Kessler said that the Dimension Water Treatment Plant will be offline for two weeks beginning November 7, 2016, due to the planned Cooks Reservoir rehabilitation project, and mentioned that the District will purchase water through interties with other agencies.

RECOMMENDED ACTION

The Committee received the status update, no action taken.

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP | NOVEMBER 2, 2016**

ITEM 9: WASTEWATER SYSTEM UPDATES

Mr. Hanberg presented the Wastewater System Status update through October, 2016, and reported on the following matters:

1. Wastewater Department staff repaired a four-inch sludge line at the Robinson Ranch Wastewater Treatment Plant.
2. Wastewater Department staff cleaned the wet wells at Via Allegre, Bell Canyon, and Barneburg Sewer Lift Stations.
3. Wastewater Department staff completed Source Control Inspections of commercial accounts in accordance with the District's Sewer System Management Plan (SSMP).

Mr. Hanberg provided an updated Monthly Recycled Water System Operations Summary for October 2016 for Committee review, and reported that the Dove Lake freeboard is currently at 15.1 feet. Mr. Hanberg highlighted that T-Y Nursery used approximately sixty-seven acre feet of recycled water, and that the recycled water reservoir has been supplemented with potable water to help the District to meet recycled water demands.

RECOMMENDED ACTION

The Committee received the status update, no action taken.

ITEM 10: OTHER MATTERS/REPORTS

Ms. Lausten has no other matter to report.

RECOMMENDED ACTION

The Committee received the information, no action taken.

ADJOURNMENT

Director Mandich adjourned the November 2, 2016, Engineering/Operational Committee Meeting at 7:47 AM.